

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: HALO

Report Number: P328649

Luminaire Tested: **L815SQ10SP940MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P328649  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-290-22)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L815SQ10SP940MB  
Description: Square Track 13x1, 1000lm, 15°, 4000K, black finish  
Light Source: (13) 4000K CCT, 92 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

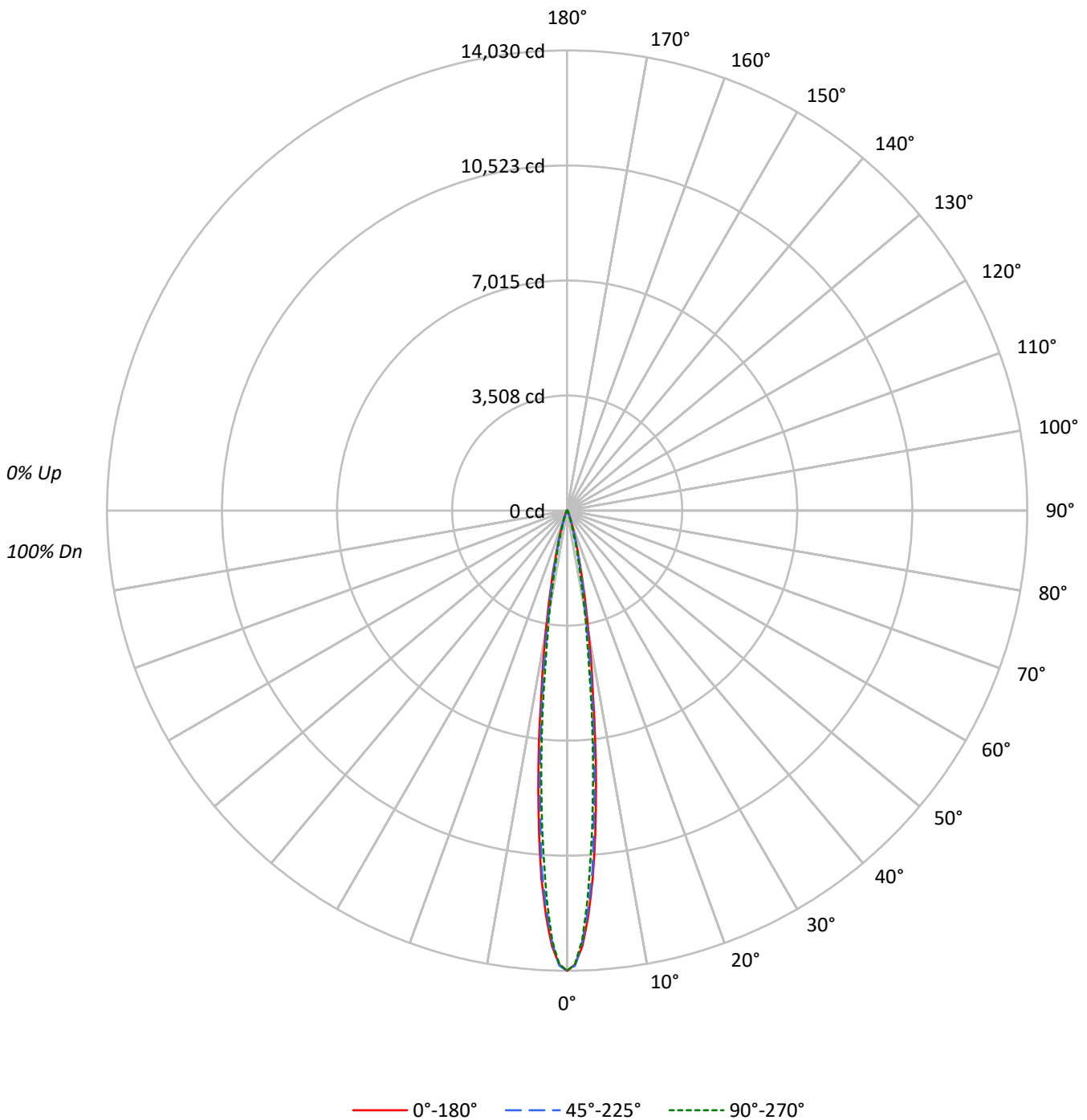
Lumens per Lamp: N/A  
Luminaire Lumens: 1150.0 lumens  
Efficiency: N/A  
Efficacy: 81.0 lumens/watt  
Spacing Criteria (0/90/45): 0.24 / 0.22 / 0.24  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	114	112	110	113	111	110	109	107	106	105	104	103	102	100	100	99	98
2	112	109	106	104	110	107	105	103	104	102	101	101	100	99	99	98	97	95
3	109	105	102	99	108	104	101	99	101	99	97	99	97	96	97	96	94	93
4	107	102	98	96	105	101	98	95	99	96	94	97	95	93	96	94	92	91
5	104	99	96	93	103	98	95	93	97	94	92	95	93	91	94	92	90	89
6	102	97	93	91	101	96	93	90	95	92	90	94	91	89	93	90	89	88
7	100	95	91	89	99	94	91	88	93	90	88	92	90	88	91	89	87	86
8	98	93	89	87	97	92	89	87	91	89	86	91	88	86	90	88	86	85
9	96	91	88	85	96	91	87	85	90	87	85	89	87	85	89	86	85	84
10	95	89	86	84	94	89	86	84	89	86	84	88	85	84	87	85	83	83

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1359211	1359211	1359211
5°	960153	913009	871028
10°	368258	334330	298985
15°	113311	104004	84246
20°	35247	34928	24835
25°	14505	13201	11020
30°	8222	7081	6510
35°	5428	4825	4470
40°	3996	3617	3351
45°	3220	2932	2795
50°	2773	2622	2457
55°	2584	2415	2246
60°	2364	2170	2170
65°	2109	1880	1880
70°	1728	1728	1728
75°	1160	1160	1160
80°	0	558	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	690.5	60.0
10°-20°	326.8	28.4
20°-30°	64.4	5.6
30°-40°	26.8	2.3
40°-50°	17.0	1.5
50°-60°	12.6	1.1
60°-70°	8.7	0.8
70°-80°	3.1	0.3
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1081.7	94.1
0°-40°	1108.5	96.4
0°-60°	1138.1	99.0
0°-90°	1150.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1150.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14030	14030	14030	14030	14030	
5°	9874	9809	9389	9213	8957	726
15°	1130	1121	1037	918	840	363
25°	136	133	124	109	103	71
35°	46	44	41	39	38	30
45°	24	22	21	20	20	19
55°	15	14	14	13	13	13
65°	9	9	8	9	8	9
75°	3	3	3	3	3	3
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	14030.5	14030.5	14030.5	14030.5	14030.5
1°	13840.7	13905.0	13876.4	13828.4	13828.4
2°	13280.3	13323.2	13174.2	13094.6	13098.7
3°	12364.8	12390.3	12163.8	12052.5	11859.6
4°	11233.0	11203.4	11012.5	10742.0	10435.9
5°	9873.5	9809.2	9388.7	9213.2	8957.0
6°	8419.1	8421.1	8000.7	7695.5	7555.7
7°	7004.5	6890.2	6507.5	6174.8	6126.8
8°	5680.8	5596.1	5343.0	4983.7	4746.9
9°	4687.7	4516.3	4193.7	3892.7	3800.8
10°	3743.6	3575.2	3398.7	3138.4	3039.4
11°	3030.2	2891.4	2693.4	2421.9	2336.2
12°	2352.5	2298.4	2119.8	1938.2	1826.9
13°	1881.0	1815.7	1700.4	1500.3	1458.5
14°	1449.3	1439.1	1344.2	1172.7	1103.3
15°	1129.8	1120.6	1037.0	917.5	840.0
17.5°	609.3	626.7	607.3	488.9	446.0
20°	341.9	350.1	338.8	275.6	240.9
22.5°	204.1	207.2	194.9	165.3	154.1
25°	135.7	132.7	123.5	109.2	103.1
27.5°	99.0	95.9	85.7	77.6	75.5
30°	73.5	68.4	63.3	59.2	58.2
32.5°	57.2	54.1	50.0	46.9	46.9
35°	45.9	43.9	40.8	38.8	37.8
37.5°	38.8	36.7	33.7	32.7	31.6
40°	31.6	30.6	28.6	27.6	26.5
42.5°	27.6	25.5	24.5	23.5	23.5
45°	23.5	22.5	21.4	20.4	20.4
47.5°	20.4	19.4	19.4	18.4	18.4
50°	18.4	17.4	17.4	16.3	16.3
52.5°	16.3	16.3	15.3	15.3	14.3
55°	15.3	14.3	14.3	13.3	13.3
57.5°	13.3	13.3	12.2	12.2	12.2
60°	12.2	11.2	11.2	11.2	11.2
62.5°	11.2	10.2	10.2	10.2	10.2
65°	9.2	9.2	8.2	9.2	8.2
67.5°	8.2	8.2	7.1	7.1	7.1
70°	6.1	6.1	6.1	6.1	6.1
72.5°	4.1	4.1	4.1	4.1	4.1
75°	3.1	3.1	3.1	3.1	3.1
77.5°	2.0	1.0	2.0	1.0	1.0
80°	0.0	0.0	1.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)